

AMENDMENTS TO THE CLAIMS:

Amend the claims as follows:

Claim 1-11. (Canceled)

12. (Withdrawn – Currently Amended) A microarray for detecting a dendritic cell comprising ~~a dendritic cell-specific nucleotide sequence immobilized on a solid surface[[;]]~~.

~~wherein said dendritic cell-specific nucleotide sequence is selected from the group consisting of the combination of myosin phosphatase target subunit 1 gene, CD20-like precursor gene, Ig superfamily protein gene, glycoprotein nmb gene, 5-lipoxygenase activating protein gene, dihydropyrimidinase related protein-2 gene, cystatin A gene, Immunoglobulin transcription factor 2 gene, transforming growth factor beta-induced 68kD gene, myeloid DAP12-associating lectin gene, B cell linker protein gene, activated RNA polymerase II transcription cofactor 4 gene, enolase 1 alpha gene, 90 kDa heat shock protein gene, accessory proteins BAP31/BAP29 gene, isocitrate dehydrogenase 3 (NAD⁺) alpha gene, microsomal glutathione S-transferase 2 gene, GABA(A) receptor-associated protein gene, nicastrin gene, purinergic receptor (family A group 5) gene, Rho GDP dissociation inhibitor beta gene, MAD homolog 2 gene, MLN51 gene, interferon regulatory factor 4 gene, the fragments of these genes, a polynucleotide of SEQ ID NO:1 or its fragment, a polynucleotide of SEQ ID NO:2 or its fragment, a polynucleotide of SEQ ID NO:3 or its fragment, a polynucleotide of SEQ ID NO:4 or its fragment, a polynucleotide of SEQ ID NO:5 or its fragment, and a polynucleotide of SEQ ID NO:6 or its fragment and the combination thereof.~~

13. (Withdrawn – Currently Amended) A microarray for identifying a lymphoid CD11c⁻ dendritic cell comprising ~~a lymphoid CD11c⁻ dendritic cell-specific nucleotide sequence, immobilized on a solid surface[(:)]~~,

~~wherein said lymphoid CD11c⁻ dendritic cell-specific nucleotide sequence is selected from the group consisting of the combination of 5-lipoxygenase activating protein gene or its fragment, dihydropyrimidinase related protein-2 gene or its fragment, and interferon regulatory factor 4 gene or its fragment and the combination thereof.~~

14. (Currently Amended) A microarray for identifying a myeloid monocyte-derived dendritic cell comprising ~~a myeloid monocyte-derived dendritic cell-specific nucleotide sequence immobilized on a solid surface[(:)]~~,

~~wherein said myeloid monocyte-derived dendritic cell-specific nucleotide sequence is selected from the group consisting of the combination of thymus and activation-regulated chemokine gene or its fragment, dihydropyrimidinase related protein-2 gene or its fragment, lysosomal acid lipase or its fragment, calmodulin gene or its fragment, interferon regulatory factor 4 gene or its fragment, and DC-Lamp gene or its fragment and the combination thereof.~~

15. (Withdrawn – Currently Amended) A microarray for identifying a myeloid CD1a⁺ dendritic cell comprising ~~a myeloid CD1a⁺ dendritic cell-specific nucleotide sequence-immobilized on a solid surface[(:)]~~,

~~wherein said myeloid CD1a⁺ dendritic cell-specific nucleotide sequence is selected from the group consisting of the combination of~~ a polynucleotide of SEQ ID NO:2 or its fragment, a polynucleotide of SEQ ID NO:3 or its fragment, a polynucleotide of SEQ ID NO:5 or its fragment, S100 calcium-binding protein beta gene or its fragment, matrix metalloproteinase 12 gene or its fragment, thymus and activation-regulated chemokine gene or its fragment, CD1B antigen gene or its fragment, CD20-like precursor gene or its fragment, MHC class II HLA-DQ-alpha chain gene or its fragment, osteopontin gene or its fragment, 5-lipoxygenase activating protein gene or its fragment, monocyte chemotactic proteins 4 gene or its fragment, lysosomal acid lipase gene or its fragment, cystatin A gene or its fragment, annexin A2 gene or its fragment, vesicle-associated membrane protein 8 gene or its fragment, MHC class II HLA-DM-alpha chain gene or its fragment, DORA protein gene or its fragment, DC-Lamp gene or its fragment, Mannose receptor (CD206) gene or its fragment, and Langerin (CD207) gene or its fragment ~~and the combination thereof.~~

16. (Withdrawn – Currently Amended) A microarray for identifying a myeloid CD14⁺ dendritic cell comprising, ~~a myeloid CD14⁺ dendritic cell-specific nucleotide sequence immobilized on a solid surface[;].~~

~~wherein said myeloid CD14⁺ dendritic cell-specific nucleotide sequence is selected from the group consisting of the combination of~~ a polynucleotide of SEQ ID NO:2 or its fragment, S100 calcium-binding protein beta gene or its fragment, myosin phosphatase target subunit 1 gene or its fragment, CD20-like precursor gene or its fragment, Ig superfamily protein gene or its fragment, glycoprotein nmb gene or its

fragment, osteopontin gene or its fragment, 5-lipoxygenase activating protein gene or its fragment, mannose receptor C type 1 gene or its fragment, monocyte chemotactic proteins 4 gene or its fragment, RNase A family 1 (RNAs 1) gene or its fragment, lysosomal acid lipase gene or its fragment, cystatin A gene or its fragment, monocyte chemotactic proteins 1 (MCP 1) gene or its fragment, transforming growth factor beta-induced 68kD gene or its fragment, ferritin light polypeptide gene or its fragment, vesicle-associated membrane protein 8 gene or its fragment, and Mannose receptor (CD206) gene or its fragment ~~and the combination thereof.~~

Claim 17. (Canceled)

18. (Withdrawn – Currently Amended) A microarray for identifying a maturation stage of a myeloid monocyte-derived dendritic cell comprising, ~~a nucleotide sequence immobilized on a solid surface[[:]].~~

~~wherein said nucleotide sequence is selected from the group consisting of the combination of thymus and activation-regulated chemokine gene or its fragment, dihydropyrimidinase related protein-2 gene or its fragment, interferon regulatory factor 4 gene or its fragment, and DC-Lamp gene or its fragment ~~and the combination thereof.~~~~

19. (Withdrawn – Currently Amended) A microarray for identifying a maturation stage of a myeloid CD1a⁺ dendritic cell comprising, ~~a nucleotide sequence-immobilized on a solid surface[[:]].~~

~~wherein said nucleotide sequence is selected from the group consisting of the combination of~~ a polynucleotide of SEQ ID NO:2 or its fragment, a polynucleotide of SEQ ID NO:3 or its fragment, a polynucleotide of SEQ ID NO:5 or its fragment, S100 calcium-binding protein beta gene or its fragment, matrix metalloproteinase 12 gene or its fragment, thymus and activation-regulated chemokine gene or its fragment, CD1B antigen gene or its fragment, CD20-like precursor gene or its fragment, MHC class II HLA-DQ-alpha chain gene or its fragment, osteopontin gene or its fragment, monocyte chemotactic proteins 4 gene or its fragment, lysosomal acid lipase gene or its fragment, cystatin A gene or its fragment, transforming growth factor beta-induced 68kD gene or its fragment, annexin A2 gene or its fragment, vesicle-associated membrane protein 8 gene or its fragment, DORA protein gene or its fragment, DC-Lamp gene or its fragment, and Langerin (CD207) gene or its fragment and the combination thereof.

20. (Withdrawn – Currently Amended) A microarray for identifying a maturation stage of a myeloid CD14⁺ dendritic cell comprising, ~~a nucleotide sequence-immobilized on a solid surface[;]]~~.

~~wherein said nucleotide sequence is selected from the group consisting of the combination of~~ a polynucleotide of SEQ ID NO:2 or its fragment, S100 calcium-binding protein beta gene or its fragment, CD20-like precursor gene or its fragment, Ig superfamily protein gene or its fragment, glycoprotein nmb gene or its fragment, osteopontin gene or its fragment, 5-lipoxygenase activating protein gene or its fragment, mannose receptor C type 1 gene or its fragment, monocyte chemotactic proteins 4 gene or its fragment, RNase A family 1 gene or its fragment, lysosomal acid lipase gene or its

fragment, cystatin A gene or its fragment, monocyte chemotactic proteins 1 gene or its fragment, transforming growth factor beta-induced 68kD gene or its fragment, ferritin light polypeptide gene or its fragment, vesicle-associated membrane protein 8 gene or its fragment, and Mannose receptor (CD206) gene or its fragment-and the combination thereof.